

# SUPPLEMENTAL HEART PUMP METHODS AND SYSTEMS FOR SUPPLEMENTING BLOOD THROUGH THE HEART

## Abstract of the Disclosure

Systems and methods of supplementing blood flow from the heart of a patient involving superficial, non-invasive procedures. In one general method, a first conduit is directed into the left side of the heart, a second conduit is directed into a superficial vessel and a pump is connected between the first and second conduits. The pump is implanted superficially in the patient and a power supply is connected to the pump. Blood is then suctioned from the left side of the patient's heart through the first conduit into the pump and expelled from the pump into the second conduit and the superficial vessel. A transcutaneous power supply is disclosed in one aspect and includes an external portion with a connection and alignment feature to assure reliable transmission of power.